

Application Serial No.: 09/801,979
Amendment dated: March 7, 2001

Reply to Office action of: October 4, 2004
Attorney Docket No.: ARC920000134US1

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in this application:

Listing of Claims:

1. (Once amended) A method of inputting text entry of a logographic based language, comprising:
typing at least some initial characters of a logographic based text;
based on the typed initial characters, displaying one or more candidate characters for a target character among the candidate characters;
tracking a user's eye [[gaze]] natural looking position at the displayed candidate characters;
based on the user's eye [[gaze]] natural looking position, pre-selecting one or more candidate characters, without requiring deliberate staring at the pre-selected one or more candidate characters, in order to select the target character; and
selecting the target character from among the one or more pre-selected candidate characters by multiplexing the user's eye [[gaze position]] natural looking position and a single confirmation input command.
2. (Original) The method of claim 1, further including activating the single confirmation input command by manually pressing a single confirmation key.

Application Serial No.: 09/801,979
Amendment dated: March 7, 2001

Reply to Office action of: October 4, 2004
Attorney Docket No.: ARC920000134US1

3. (Original) The method of claim 2, wherein the step of displaying one or more candidate characters includes displaying Chinese characters.

4. (Original) The method of claim 3, wherein the step of pre-selecting one or more candidate characters includes highlighting the pre-selected candidate characters.

5. (Original) The method of claim 3, wherein the step of pressing the single confirmation key includes pressing any one or more of: a space bar, a control key, an enter key, a dedicated key, a foot pedal, a mouse button, a pad tap.

6. (Original) The method of claim 3, wherein the step of activating the single confirmation input command includes entering a voice command.

7. (Original) The method of claim 3, wherein the step of displaying includes displaying the candidate characters in order of frequency of usage.

8. (Original) The method of claim 7, wherein the step of displaying includes displaying a most frequently used candidate character in a pre-selected position.

9. (Original) The method of claim 3, wherein the step of displaying includes displaying the candidate characters in a single row.

Application Serial No.: 09/801,979
Amendment dated: March 7, 2001

Reply to Office action of: October 4, 2004
Attorney Docket No.: ARC920000134US1

10. (Original) The method of claim 3, wherein the step of displaying includes displaying the candidate characters in a staggered arrangement.

11 - 12. (Canceled)

13. (Currently amended) A system for accelerating text entry of a logographic based language, comprising:

an input device for typing at least some initial characters of a logographic based text;

[[a gaze tracking]] an eye-tracking apparatus that monitors [[an eye gaze of a user]] a user's eye natural looking position;

a display for visually displaying one or more candidate characters of the logographic based language based on the typed initial characters; [[, and including:]]

an input tracking bar that displays inputted characters;

a [[gaze-tracking]] panel that displays the one or more candidate characters based on the typed initial characters, and that allows a pre-selection of the one or more candidate characters by tracking the user's eye natural looking position without requiring deliberate staring at the preselected one or more candidate characters, in order to select [[until]] a target character; [[is identified; and

a character output area that displays target characters that have been selected; and]]

a user input device [[including]] that generates a single confirmation input command [[, that enables]] for enabling the selection of the target character by multiplexing the user's eye natural looking position and the

Application Serial No.: 09/801,979
Amendment dated: March 7, 2001

Reply to Office action of: October 4, 2004
Attorney Docket No.: ARC920000134US1

single confirmation input command; and [[visually recognizing the target character while activating the single confirmation input command;

wherein multiplexing visual recognition and the single confirmation input command accelerates text entry.]]

a character output area that displays the selected target character.

14. (Original) The system of claim 13, further including a scrolling indicator that enables scrolling action between multiple pages.

15. (Original) The system of claim 13, wherein the single confirmation input command includes a single manual confirmation key.

16. (Original) The system of claim 13, wherein the candidate characters include Chinese characters.

17. (Currently amended) The system of claim 13, wherein the [[gaze tracking]] eye-tracking apparatus visually highlights pre-selected candidate characters.

18. (Original) The system of claim 15, wherein the single confirmation key includes any one or more of: a space bar, a control key, an enter key, a dedicated key, a foot pedal, a mouse button, a pad tap.

19. (Original) The system of claim 13, wherein the single confirmation input command includes a voice command.

Application Serial No.: 09/801,979
Amendment dated: March 7, 2001

Reply to Office action of: October 4, 2004
Attorney Docket No.: ARC920000134US1

20. (Original) The system of claim 13, wherein the display displays candidate characters in order of frequency of usage.

21 – 24. (Canceled)

25. (New) A computer program product having a plurality of executable instruction codes for inputting text entry of a logographic based language, comprising:

an input device for typing at least some initial characters of a logographic based text;

a first set of instruction codes for displaying one or more candidate characters for a target character among the candidate characters, based on the typed initial characters;

a second set of instruction codes for tracking a user's eye natural looking position;

a third set of instruction codes for pre-selecting one or more candidate characters, based on the user's eye natural looking position, without requiring deliberate staring at the pre-selected one or more candidate characters, in order to select the target character; and

a fourth set of instruction codes for selecting the target character from among the one or more pre-selected candidate characters by multiplexing the user's eye natural looking position and a single confirmation input command.

26. (New) The computer program product of claim 25, further including a sixth set of instruction codes for activating the single confirmation input command by manually pressing a single confirmation key.

Application Serial No.: 09/801,979
Amendment dated: March 7, 2001

Reply to Office action of: October 4, 2004
Attorney Docket No.: ARC920000134US1

27. (New) The computer program product of claim 26, wherein the first set of instruction codes displays Chinese characters.

28. (New) The computer program product of claim 27, wherein the third set of instruction codes pre-selects the one or more candidate characters by highlighting the pre-selected candidate characters.

29. (New) The computer program product of claim 27, wherein the single confirmation key includes any one or more of: a space bar, a control key, an enter key, a dedicated key, a foot pedal, a mouse button, a pad tap.

30. (New) The computer program product of claim 27, wherein the sixth set of instruction codes activates the single confirmation input command in response to a voice command.